## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- (Currently Amended) A guide wire consisting essentially of a core wire having distal, medial and proximal segments, the core wire having a tapered segment between the medial segment and the distal segment, substantially comprising a non-metallic, non-braided, nonwoven, polymeric material.
- 2. (Original) A guide wire according to claim 1 wherein the core wire distal segment has a diameter which is less than that of the core wire medial and proximal segments.
- (Original) A guide wire according to claim 1 wherein the diameters of the core wire distal, medial, and proximal segments are all substantially the same.
- (Previously Presented) A guide wire according to claim 1 wherein the core wire has a
  polymeric coating thereon which covers substantially the entire length of the core wire.
- Canceled.
- 6. (Original) A guide wire according to claim 1 wherein the core wire further comprises a taper which couples the medial segment and the distal segment and wherein substantially the entire core wire is covered with a polymeric material.
- 7. (Original) A guide wire according to claim 1 wherein the core wire comprises a polymeric material.
- (Original) A guide wire according to claim 1 wherein the core wire comprises a
  polymeric material and the core wire is substantially completely covered with a second
  polymeric material.
- (Original) A guide wire according to claim 1 wherein the distal segment of the core wire has a diameter which is less than that of the medial segment.
- 10. (Previously Presented) A guide wire comprising a core wire, the core wire having coupled proximal, medial, and distal segments, the core wire substantially completely consisting essentially of non-woven, non-braided polymeric material.
- 11. (Original) A guide wire according to claim 10 wherein the core wire is coated with a second polymerical material.
- (Original) A guide wire according to claim 10 wherein the core wire comprises carbon fiber.
- 13. (Original) A guide wire according to claim 10 wherein the core wire comprises polyetheretherketone.

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- 14. (Previously Presented) A guide wire according to claim 10 wherein the core wire is coated with PEBAX polyetherimide.
- 15. (Previously Presented) A guide wire according to claim 10 wherein the core wire comprises polyetheretherketone, and the core wire is coated with polyetherimide.
- 16. (Original) A guide wire according to claim 15 wherein the core wire distal segment is more flexible than either of the medial segment or the proximal segment.
- 17. (Original) A guide wire according to claim 15 wherein the core wire distal segment is coupled to the core wire medial segment through a tapered segment and the distal segment has a diameter which is less than that of the medial segment.
- 18. (Currently Amended) A guide wire according to claim 15 wherein the polyetherimide coating has a hydrophilic coating thereover.
- 19. (Previously Presented) A guide wire consisting essentially of a core wire having coupled distal, medial, and proximal segments, the core wire comprising multiple, helically-wound, non-woven, non-braided, non-metallic fibers and a binder resin, the binder resin being uniformly dispersed between the fibers so as to fill any void space therebetween.
- (Original) A guide wire according to claim 19 which further comprises a coil wire disposed about the distal segment.
- 21. (Original) A guide wire according to claim 19 where the non-metallic fibers comprise carbon and the binder resin comprises a vinyl ester.
- 22. Canceled.
- 23. Canceled.
- 24. Canceled.
- 25. (Previously Presented) A guide wire comprising a core wire, the core wire having coupled proximal, medial and distal segments, the core wire being helically wound fibers, the fibers consisting essentially of non-woven. non-braided polymeric material.
- (Previously Presented) A guide wire according to Claim 25 wherein helically wound core wire has at least 10 helical turns per foot.
- (Previously Presented) A guide wire according to Claim 25 wherein the core wire comprises fibers bound together by means of a binder.
- (Previously Presented) A guide wire according to Claim 25 wherein the fibers are carbon fibers.
- 29. (Previously Presented) A guide wire according to Claims 25 wherein the helically wound fibers are wound in one direction.

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